

ABSTRACT OF THE DISCLOSURE

An optical fiber array is constructed by using a plurality of laser modules, which guide a laser beam emitted from a semiconductor laser of a blue color wavelength to an optical fiber, such that beam emitting ends of respective optical fibers are aligned in one row at an equal interval, and the laser beam being output from the optical fiber array is used as a multibeam of an optical recording apparatus. A relative refractive index difference of the used optical fiber is set between 0.1 % to 0.2 %, and a core diameter is set to 4.5 μm or less, and also a mode field diameter of the optical fiber, i.e., a diameter of a beam spot emitted from the optical fiber is set to 3 μm or more.